PENDING CLAIMS AS AMENDED

Please amend the claims as follows:

**Listing of Claims:** 

1. (Previously Presented) A method for communicating between a first

communication endpoint coupled to an R<sub>m</sub> interface and a second communication endpoint

coupled to a network, the method comprising:

a. receiving a provisioning request for a resource by a mobile station manager from

one of the first communication endpoint and the second communication endpoint;

b. provisioning the resource at least partially through the  $R_{\rm m}$  interface in response to

the provisioning request,

wherein the resource uniquely identifies the first communication endpoint on the

communication network;

c. establishing a predetermined communication state between the first

communication endpoint and the second communication endpoint through the mobile station

manager in response to the provisioning request,

wherein the first communication endpoint communicates messages over the R<sub>m</sub> interface

with the mobile station manager as TE2-type signals; and

wherein the second communication endpoint communicates messages with the mobile

station manager as network protocol signals; and

d. adapting the communicated messages between TE2-type signals and network

protocol signals.

2. (Original) The method of Claim 1, further comprising adapting messages for

communication between the mobile station manager and the first communication endpoint over

an R<sub>m</sub> interface using one of an asynchronous, a synchronous, a isochronous, and a variable-rate

physical interface protocol, wherein the messages are communicated across one of a wired

physical interface and a wireless physical interface, and wherein the R<sub>m</sub> interface is substantially

ISDN-incompatible physical interface.

Attorney Docket No.: 020703

Customer No.: 23696

- 3. (Original) The method of Claim 1, further comprising adapting messages for communication between the mobile station manager and the second communication endpoint over an  $U_m$  interface using one of a CDMA carrier access method, a TDMA carrier access method, a FDMA carrier access method, and an operable combination thereof.
- 4. (Original) The method of Claim 2, further comprising adapting messages for communication between the mobile station manager and the second communication endpoint over an U<sub>m</sub> interface using one of a CDMA carrier access method, a TDMA carrier access method, a FDMA carrier access method, and an operable combination thereof.

## 5-36. (Cancelled).

- 37. (Previously Presented) A method for communicating across a network with a remote host, the method comprising:
- a. receiving a provisioning request for a resource by a mobile station manager coupled to at least one mobile terminal, wherein the at least one mobile terminal communicates messages as TE2-type signals through a respective  $R_m$  interface with the mobile station manager;
- b. provisioning the resource at least partially through the  $R_m$  interface in response to the provisioning request, wherein the resource uniquely identifies the at least one mobile terminal relative to the communication network;
- c. establishing a predetermined communication state between the mobile station manager and a selected available communication network using a selected wireless communication protocol over a selected carrier access method; and
- d. establishing a predetermined communication state between the at least mobile terminal and the remote host through the mobile station manager in response to the provisioning request, wherein the remote host communicates messages with the mobile station manager as network protocol signals; and
- e. adapting the communicated messages between TE2-type signals and network protocol signals.

3

Attorney Docket No.: 020703

38. (Original) The method of Claim 37, further comprising adapting messages for

communication between the mobile station manager and the at least one mobile terminal over an

R<sub>m</sub> interface using one of an asynchronous, a synchronous, a isochronous, and a variable-rate

physical interface protocol, wherein the messages are communicated across one of a wired

physical interface and a wireless physical interface, and wherein the R<sub>m</sub> interface is a

substantially ISDN-incompatible physical interface.

39. (Original) The method of Claim 38, further comprising adapting messages for

communication between the mobile station manager and the second communication endpoint

over an U<sub>m</sub> interface using one of a CDMA carrier access method, a TDMA carrier access

method, a FDMA carrier access method, and an operable combination thereof.

40. (Original) The method of Claim 39, wherein the provisioning request

comprises one of an ALLOCATE request, a RELEASE request, a REVOKE request, an

UPDATE request, and a combination thereof.

41-52. (Cancelled).

53. (Previously Presented) A mobile station for communicating with a mobile

service provider across a U<sub>m</sub> interface, comprising:

a. a mobile terminal coupled to, and configured to communicate messages across, an

R<sub>m</sub> interface, using a selected configuration; and

b. a wireless communication device coupled between the R<sub>m</sub> interface and the U<sub>m</sub>

interface,

wherein the wireless communication device provides the selected configuration to the

mobile terminal at least partially through the R<sub>m</sub> interface,

wherein the wireless communication device cooperates with the mobile terminal to

configure the mobile terminal to communicate the messages across the R<sub>m</sub> interface, and

Attorney Docket No.: 020703

wherein the wireless communication device is adapted to communicate the messages

with the mobile service provider across the  $U_{m}$  interface.

54. (Original) The mobile station of Claim 53, further comprising mobile

terminals coupled to, and configured to communicate messages across, the R<sub>m</sub> interface, each

mobile terminal using a respective selected configuration;

wherein the wireless communication device provides the respective selected

configuration to each mobile terminal,

wherein the wireless communication device cooperates with the mobile terminals to

configure the mobile terminals to communicate messages from the mobile terminals across the

R<sub>m</sub> interface, and

wherein the wireless communication device is adapted to communicate the messages

from the mobile terminals with the mobile service provider across the U<sub>m</sub> interface.

55. (Original) The mobile station of Claim 54, further comprising mobile

terminals coupled to, and configured to communicate messages across, predetermined R<sub>m</sub>

interfaces, each mobile terminal using a respective selected configuration to communicate

respective messages across a respective selected one of the predetermined R<sub>m</sub> interfaces;

wherein the wireless communication device provides the respective selected

configuration to each mobile terminal,

wherein the wireless communication device cooperates with the mobile terminals to

configure the mobile terminals to communicate messages from the mobile terminals across the

respective selected one of the predetermined R<sub>m</sub> interfaces, and

wherein the wireless communication device is adapted to communicate the messages

from the mobile terminals with the mobile service provider across the U<sub>m</sub> interface.

56. (Original) The mobile station of Claim 55, wherein the wireless

communication device is adapted to communicate with mobile service providers across U<sub>m</sub>

interfaces, is adapted to communicate the messages from a selected one of the mobile terminals

with a selected one of the mobile service providers across a respective one of the  $U_m$  interfaces.

Attorney Docket No.: 020703

Customer No.: 23696

57. (Original) The mobile station of Claim 55, wherein the U<sub>m</sub> interface is

representative of a carrier access method comprising one of a digital carrier access method, an

analog carrier access method, and an operable combination thereof.

58. (Original) The mobile station of Claim 57, wherein the carrier access method

further comprises one of a CDMA carrier access method, a TDMA carrier access method, a

FDMA carrier access method, and an operable combination thereof.

59. (Original) The mobile station of Claim 58, wherein the carrier access method

is a carrier access method conforming at least in part to International Telecommunications Union

(Radio) Recommendation ITU-R M.1457.

60. (Original) The mobile station of Claim 58, wherein a first U<sub>m</sub> interface is

representative of a first carrier access method, and a second U<sub>m</sub> interface is representative of a

second carrier access method, and wherein the first carrier access method is different from the

second carrier access method.

61. (Original) The mobile station of Claim 58, wherein a first U<sub>m</sub> interface is

representative of a first carrier access method, wherein a second U<sub>m</sub> interface is representative of

a second carrier access method, wherein the first carrier access method is different from the

second carrier access method, and wherein one of the first and second carrier access method

conforms at least in part to International Telecommunications Union (Radio) Recommendation

ITU-R M.1457.

62. (Previously Presented) A mobile station communicating with a

communication network over a wireless communication link, comprising:

a. a managed device having a selected network configuration, the managed device

communicating messages of TE2-type physical layer signals; and

Attorney Docket No.: 020703

Customer No.: 23696

b. a mobile station manager communicatingly coupled between the wireless

communication link and the managed device, and adapted to render TE2-type physical layer

signals suitable for exchanging with the communication network over the wireless

communication link,

wherein the mobile station manager dynamically provisions at least partially through an

R<sub>m</sub> interface a selected network configuration on behalf of the managed device and cooperates to

apply the selected network configuration to the managed device, the selected network

configuration rendering the managed device capable of communicating the messages over the

communication network.

63. (Original) The mobile station of Claim 62, wherein the mobile station

manager further comprises:

a. a device-related interface connected with the managed device, and adapted to

transform the messages of TE2-type physical layer signals over the R<sub>m</sub> interface into messages

conforming to a network protocol;

b. a network protocol interface connected with the wireless communication, and

adapted to transform the messages conforming to the network protocol into messages suitable for

communicating with the communication network over the U<sub>m</sub> interface; and

c. a mobile configuration manager adapted to manage the managed device and to

communicate the messages conforming to the network protocol between the device-related

interface and the network protocol interface.

64. (Original) The mobile station of Claim 63, wherein the managed device

comprises a non-ISDN compatible mobile terminal.

65. (Original) The mobile station of Claim 63, wherein TE2-type physical layer

signals comprise signals conforming at least in part to one of an ITU Recommendation, an IEEE

standard, an ISO standard, an ANSI standard, an IETF standard, an EIA standard, a TIA

standard, an IEC standard, an ETSI standard, an AIAA standard, an ARINC standard, a SAE

Attorney Docket No.: 020703

Customer No.: 23696

standard, a serial interface standard, a parallel interface standard, and an interface standard

representative of a selective combination thereof.

66. (Original) The mobile station of Claim 63, wherein the U<sub>m</sub> interface is

representative of a carrier access method, and the carrier access method comprises one of a

digital carrier access method, an analog carrier access method, and an operable combination

thereof.

67. (Original) The mobile station of Claim 66, wherein the carrier access method

further comprises one of a CDMA carrier access method, a TDMA carrier access method, a

FDMA carrier access method, and an operable combination thereof.

68. (Original) The mobile station of Claim 67, wherein the carrier access method is a

carrier access method conforming at least in part to International Telecommunications Union

(Radio) Recommendation ITU-R M.1457.

69. (Original) The mobile station of Claim 63, wherein the mobile configuration

manager is adapted to communicate over first and second U<sub>m</sub> interfaces using respective first and

second network protocol interfaces; wherein a first U<sub>m</sub> interface is representative of a first carrier

access method, and a second U<sub>m</sub> interface is representative of a second carrier access method.

70. (Original) The mobile station of Claim 69, wherein the mobile configuration

manager is adapted to communicate over first and second R<sub>m</sub> interfaces using respective first and

second device related interfaces; and wherein the first R<sub>m</sub> interface is connected with a first

managed device, and the second R<sub>m</sub> interface is connected with a first managed device.

71. (Original) The mobile station of Claim 63, wherein the mobile configuration

manager selects between the first network protocol interface for communicating across the first

 $U_m$  interface using the first carrier access method and the second network protocol interface for

Attorney Docket No.: 020703

Customer No.: 23696

communicating across the second U<sub>m</sub> interface using the the second carrier access method,

responsive to a Quality-of-Service input signal.

72. (Original) The mobile station of Claim 71, wherein the managed device is a

non-ISDN compatible mobile terminal and wherein TE2-type physical layer signals

communicated across the R<sub>m</sub> interface comprise signals conforming at least in part to one of an

ITU Recommendation, an IEEE standard, an ISO standard, an ANSI standard, an IETF standard,

an EIA standard, a TIA standard, an IEC standard, an ETSI standard, an AIAA standard, an

ARINC standard, a SAE standard, a serial interface standard, a parallel interface standard, and an

interface standard representative of a selected combination thereof.

73. (Original) The mobile station of Claim 72, wherein each of the U<sub>m</sub> interfaces

is representative of a carrier access method, and the carrier access method comprises one of a

digital carrier access method, an analog carrier access method, and an operable combination

thereof, and wherein the carrier access method further comprises one of a CDMA carrier access

method, a TDMA carrier access method, a FDMA carrier access method, and an operable

combination thereof.

74. (Original) The mobile station of Claim 73, wherein the carrier access method

comprises a carrier access method conforming at least in part to International

Telecommunications Union (Radio) Recommendation ITU-R M.1457.

75. (Previously Presented) A mobile communication device, comprising:

a. an interface configured as a device-related interface (DRIF), the DRIF

being connectable to a managed device communicating with a first physical signal format, and

configured to adapt messages communicated with the managed device between the first physical

format and a network communication format;

b. an interface configured as a network protocol interface (NPIF), the NPIF

being connectable to a communication network communicating with a second physical signal

9

Attorney Docket No.: 020703

format, and configured to adapt messages communicated with the communication network

between the network communication format and a second physical format; and

c. a mobile configuration manager coupled between the DRIF and the NPIF,

wherein the mobile configuration manager receives a provisioning resource request in the

network communication format from one of the DRIF and the NPIF,

wherein the provisioning resource request includes selected combinations of an

ALLOCATE request, a RELEASE request, a REVOKE request, and an UPDATE request, and

wherein the mobile configuration manager provisions the resource at least partially

through an R<sub>m</sub> interface in response thereto, such that the resource uniquely identifies the

managed device on the communication network.

76. (Original) The mobile communication device of Claim 75, wherein the the

managed device exchanges messages with DRIF over an R<sub>m</sub> interface using a first physical

signal format comprising ISDN-incompatible, TE2-type physical layer signals conforming at

least in part to one of an ITU Recommendation, an IEEE standard, an ISO standard, an ANSI

standard, an IETF standard, an EIA standard, a TIA standard, an IEC standard, an ETSI

standard, an AIAA standard, an ARINC standard, a SAE standard, a serial interface standard, a

parallel interface standard, and an interface standard representative of a selected combination

thereof.

77. (Original) The mobile communication device of Claim 76, wherein the NPIF

exhanges messages over a U<sub>m</sub> interface in the second physical signal format representative of a

carrier access method, and the carrier access method comprises one of a digital carrier access

method, an analog carrier access method, and an operable combination thereof, and wherein the

carrier access method further comprises one of a CDMA carrier access method, a TDMA carrier

access method, a FDMA carrier access method, and an operable combination thereof.

78. (Original) The mobile communication device of Claim 77, wherein the carrier

access method comprises a carrier access method conforming at least in part to International

Telecommunications Union (Radio) Recommendation ITU-R M.1457.

Attorney Docket No.: 020703

Customer No.: 23696 10

- 79. (Previously Presented) A portable communication adaptor coupled between a TE2 communication terminal and a communication network, wherein the TE2 communication terminal exchanges messages with a remote host over the communication network, the adaptor comprising:
  - a. an first interface coupled with the TE2 communication terminal;
  - b. a second interface coupled with the communication network;
  - c. an address server linked to the first interface and the second interface,

wherein the address server cooperates with the second interface to exchange the messages with the communication network,

wherein the address server acts on a unique resource to the TE2 communication terminal, wherein the address server cooperates with the first interface to configure at least partially through an  $R_{\rm m}$  interface the TE2 communication terminal with the unique resource,

wherein the address server cooperates with the first interface to compel the TE2 communication terminal to respond as a local host relative to the remote host,

wherein the address server cooperates with the first interface to exchange messages with the TE2 communication terminal, and

wherein the address server causes the portable communication adaptor to respond substantially as a communication router.

- 80. (Original) The portable communication adaptor of Claim 79, wherein the address server acts on the unique resource by transmitting to at least one of the first interface and the second interface a provisioning signal including one of an ALLOCATE provisioning signal, a RELEASE provisioning signal, a REVOKE provisioning signal, an UPDATE provisioning signal, and a selected combination thereof.
- 81. (Previously Presented) The portable communication adaptor of Claim 80, wherein the TE2 communication terminal exchanges the messages with the first interface through the  $R_m$  interface using a TE2-type physical layer signal format conforming at least in part to one of an ITU Recommendation, an IEEE standard, an ISO standard, an ANSI standard,

Attorney Docket No.: 020703

Customer No.: 23696 11

an IETF standard, an EIA standard, a TIA standard, an IEC standard, an ETSI standard, an

AIAA standard, an ARINC standard, a SAE standard, a serial interface standard, a parallel

interface standard, and an interface standard representative of a selected combination thereof.

82. (Original) The portable communication adaptor of Claim 81, wherein the

second interface exchanges the messages with the communication network through a U<sub>m</sub>

interface using a carrier access method, and the carrier access method comprises at least one of a

digital carrier access method, an analog carrier access method, and an operable combination

thereof, and wherein the carrier access method further comprises one of a CDMA carrier access

method, a TDMA carrier access method, a FDMA carrier access method, and an operable

combination thereof.

83. (Original) The mobile comuunication device of Claim 82, wherein the carrier

access method comprises a carrier access method conforming at least in part to International

Telecommunications Union (Radio) Recommendation ITU-R M.1457.

84. (Original) The portable communication adaptor of Claim 82, further

comprising multiple first interfaces each selectably coupled with a respective one of multiple

TE2 communication terminals, the TE2-type physical layer signal format of one of the multiple

TE2 communication terminals being different from the TE2-type physical layer signal format of

another of the multiple TE2 communication terminals.

85. (Original) The portable communication adaptor of Claim 84, further

comprising multiple second interfaces each selectably coupled with a respective one of multiple

communication networks, one of the multiple communication networks exchanging messages

with one of the multiple second interfaces using a first carrier access method, and another of the

multiple communication networks exchanging messages with a another of the multiple second

interfaces using a second carrier access method, wherein the first carrier access method is

12

different from the second carrier access method.

Attorney Docket No.: 020703

86. (Original) The portable communication adaptor of Claim 85, wherein the multiple second interfaces are selectably coupled with a respective one of multiple

communication networks responsive to a Quality-of Service signal.

87. (Original) The portable communication adaptor of Claim 82, wherein the

address server cooperates with the first interface and the second interface to exchange the

messages using one of an asynchronous service, a synchronous service, an isochronous service, a

variable-rate service, and a combination thereof.

88. (New) An apparatus for communicating between a first communication endpoint

coupled to an R<sub>m</sub> interface and a second communication endpoint coupled to a network,

comprising:

means for receiving a provisioning request for a resource by a mobile station manager

from one of the first communication endpoint and the second communication endpoint;

means for provisioning the resource at least partially through the R<sub>m</sub> interface in response

to the provisioning request, wherein the resource uniquely identifies the first communication

endpoint on the communication network;

means for establishing a predetermined communication state between the first

communication endpoint and the second communication endpoint through the mobile station

manager in response to the provisioning request, wherein the first communication endpoint

communicates messages over the R<sub>m</sub> interface with the mobile station manager as TE2-type

signals, and wherein the second communication endpoint communicates messages with the

mobile station manager as network protocol signals; and

means for adapting the communicated messages between TE2-type signals and network

protocol signals.

89. (New) The apparatus of Claim 88, further comprising means for adapting

messages for communication between the mobile station manager and the first communication

endpoint over an R<sub>m</sub> interface using one of an asynchronous, a synchronous, a isochronous, and a

Attorney Docket No.: 020703

Customer No.: 23696

variable-rate physical interface protocol, wherein the messages are communicated across one of

a wired physical interface and a wireless physical interface, and wherein the R<sub>m</sub> interface is

substantially ISDN-incompatible physical interface.

90. (New) The apparatus of Claim 88, further comprising means for adapting

messages for communication between the mobile station manager and the second

communication endpoint over an U<sub>m</sub> interface using one of a CDMA carrier access method, a

TDMA carrier access method, a FDMA carrier access method, and an operable combination

thereof.

91. (New) The apparatus of Claim 89, further comprising means for adapting

messages for communication between the mobile station manager and the second

communication endpoint over an U<sub>m</sub> interface using one of a CDMA carrier access method, a

TDMA carrier access method, a FDMA carrier access method, and an operable combination

thereof.

92. (New) An apparatus for communicating across a network with a remote host,

comprising:

means for receiving a provisioning request for a resource by a mobile station manager

coupled to at least one mobile terminal, wherein the at least one mobile terminal communicates

messages as TE2-type signals through a respective R<sub>m</sub> interface with the mobile station manager;

means for provisioning the resource at least partially through the R<sub>m</sub> interface in response

to the provisioning request, wherein the resource uniquely identifies the at least one mobile

terminal relative to the communication network;

means for establishing a predetermined communication state between the mobile station

manager and a selected available communication network using a selected wireless

communication protocol over a selected carrier access method; and

means for establishing a predetermined communication state between the at least mobile

terminal and the remote host through the mobile station manager in response to the provisioning

Attorney Docket No.: 020703

Customer No.: 23696

request, wherein the remote host communicates messages with the mobile station manager as

network protocol signals; and

means for adapting the communicated messages between TE2-type signals and network

protocol signals.

93. (New) The method of Claim 92, further comprising means for adapting messages

for communication between the mobile station manager and the at least one mobile terminal over

an R<sub>m</sub> interface using one of an asynchronous, a synchronous, a isochronous, and a variable-rate

physical interface protocol, wherein the messages are communicated across one of a wired

physical interface and a wireless physical interface, and wherein the R<sub>m</sub> interface is a

substantially ISDN-incompatible physical interface.

94. (New) The method of Claim 93, further comprising means for adapting messages

for communication between the mobile station manager and the second communication endpoint

over an U<sub>m</sub> interface using one of a CDMA carrier access method, a TDMA carrier access

method, a FDMA carrier access method, and an operable combination thereof.

95. (New) The method of Claim 94, wherein the provisioning request comprises one

of an ALLOCATE request, a RELEASE request, a REVOKE request, an UPDATE request, and

a combination thereof.

Attorney Docket No.: 020703

Customer No.: 23696